CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

Job No.: CTCE/BBMP/BTHR/W.No.12/CSR-42m/CEMENT/2021-22 Date: 22.02.2022

TEST REPORT

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
*** Name of Work**	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
*** Reference**	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
*** Sample ID**	:	Cement
Sample Received on	:	21.02.2022
Period of Testing	:	21.02.2022 to 22.02.2022
Report Issue Date	:	22.02.2022

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015 (2020)
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	180 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	390 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1.00 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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M/s. Civil-Tech Consultants & Engineers

Pooja K. L.

Authorised Signatory

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Job No.: CTCE/BBMP/BTHR/W.No.12/CSR-42m/SAND-Gradation/2021-22 22.02.2022

TEST REPORT SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of Work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Sample ID	:	Fine Aggregates (Manufactured Sand)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2021)
Sample Received On	:	21.02.2022
Date of Testing	:	22.02.2022
Report Issue Date	:	22.02.2022

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.80	90-100	90-100	90-100	95-100
2.36	80.80	60-95	75-100	85-100	95-100
1.18	60.60	30-70	55-90	75-100	90-100
600 Micron	44.60	15-34	35-59	60-79	80-100
300 Micron	18.10	5-20	8-30	12-40	15-50
150 Micron	4.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Pooja K. L.
Authorised Signatory

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Job No.: CTCE/BBMP/BTHR/W.No.12/CSR-42m/AGG/GR/2021-22

22.02.2022

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of Work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Sample ID	:	Coarse Aggregates (40mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2021)
Sample Received on	:	21.02.2022
Date of Testing	:	22.02.2022
Report Issue Date	:	22.02.2022

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.54	95-100	85-100
20	37.14	30-70	0-20
10	14.64	10-35	0-5
4.75	2.60	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/BTHR/W.No.12/CSR-42m/AGG/GR/2021-22

22.02.2022

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of Work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Sample ID	:	Coarse Aggregates (20mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963(RA-2021)
Sample Received on	:	21.02.2022
Date of Testing	:	22.02.2022
Report Issue Date	:	22.02.2022

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
40	100	100	100
20	95.00	90-100	85-100
10	34.80	25-55	0-20
4.75	5.76	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/BTHR/W.No.12/Steel/2021-22

24.02.2022

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram,
* Name of work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Samples ID	:	10 mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	24.02.2022
Report Issue Date	:	24.02.2022

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	514	555	13.15	O.K	O.K

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/BTHR/W.No.12/Steel/2021-22 24.02.2022

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram,
* Name of work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Samples ID	:	12 mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	24.02.2022
Report Issue Date	:	24.02.2022

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	518	559	13.25	O.K	O.K

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

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Job No.: CTCE/BBMP/BTHR/W.No.12/Steel/2021-22

24.02.2022

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram,
* Name of work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Samples ID	:	16 mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	24.02.2022
Report Issue Date	:	24.02.2022

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	16	1.58	523	565	13.35	O.K	O.K

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Job No.: CTCE/BBMP/BTHR/W.No.12/CSR-42m/CUBE/2021-22 27.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of the work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.03.2022
Report Issue Date	:	27.03.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.02.2022	27.03.2022	8.135	605.6	26.92
2	27.02.2022	27.03.2022	8.215	615.2	27.34
3	27.02.2022	27.03.2022	8.360	623.3	27.70

*Information is furnished by the Customer/Representative.

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27.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of the work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.03.2022
Report Issue Date	:	27.03.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.02.2022	27.03.2022	8.197	623.5	27.71
2	27.02.2022	27.03.2022	8.398	635.4	28.24
3	27.02.2022	27.03.2022	8.452	645.8	28.70

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/BTHR/W.No.12/CSR-42m/CUBE/2021-22 29.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of the work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	29.03.2022
Report Issue Date	:	29.03.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2022	29.03.2022	8.232	630.4	28.02
2	01.03.2022	29.03.2022	8.390	615.2	27.34
3	01.03.2022	29.03.2022	8.123	623.9	27.73

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